

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/527,100A
Source: TFWO
Date Processed by STIC: 06/07/2006

ENTERED



IFWO

RAW SEQUENCE LISTING DATE: 06/07/2006
 PATENT APPLICATION: US/10/527,100A TIME: 17:09:53

Input Set : A:\P1977R1_Sequence_Listing.txt
 Output Set: N:\CRF4\06072006\J527100A.raw

3 <110> APPLICANT: SARAH C. BODARY
 4 JANET K. JACKMAN
 5 BRISDELL HUNTE
 6 HILARY CLARK
 7 JILL R. SCHOENFELD
 8 P. MICKEY WILLIAMS
 9 WILLIAM I. WOOD
 10 THOMAS D. WU
 12 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE TREATMENT OF IMMUNE
 13 RELATED DISEASES
 15 <130> FILE REFERENCE: P1977R1-US
 17 <140> CURRENT APPLICATION NUMBER: US 10/527,100A
 C--> 18 <141> CURRENT FILING DATE: 2006-01-09
 20 <150> PRIOR APPLICATION NUMBER: PCT/US03/028317
 21 <151> PRIOR FILING DATE: 2003-09-10
 23 <150> PRIOR APPLICATION NUMBER: US 60/410,340
 24 <151> PRIOR FILING DATE: 2002-09-11
 26 <160> NUMBER OF SEQ ID NOS: 106
 28 <210> SEQ ID NO: 1
 29 <211> LENGTH: 1989
 30 <212> TYPE: DNA
 31 <213> ORGANISM: Homo sapiens
 33 <400> SEQUENCE: 1
 34 ggcacgaggg cgtcacgggc gcccggcccg ttaaaaacgct gctggctgga 50
 36 gccacacctcc tccctgcagc ccgcaacggg aatggagtaa agggagaccc 100
 38 gtcgacacctgg ccacggggat cagcgatgga attaaagcaa tctttgtcca 150
 40 cccatctgga agccgagaag cctctgaggc gctatggggc ggtggaggag 200
 42 acggcttggaa aaacggagag actggggaga aatcagctgg acatcatctc 250
 44 catggcggag acaaccatga tgccagagga gattgagctg gagatggcaa 300
 46 aaattcagcg tctccggaa gtcttggtcc gccggggatc tgagctcagg 350
 48 ttcatgtatgg atgacatcca gctctgcaag gacatcatgg acttgaagca 400
 50 ggagctgcag aacttggtcg ccatcccaaga aaaagaaaaa accaaactgc 450
 52 agaaggcagag agaggatgag ctaatccaga agatccacaa actggtgca 500
 54 aagagagact tccttggtaa cgatgcggag gtcgagcggtaaaggagca 550
 56 agaagaagac aaggaaatgg ctgatttcct gagaatcaag taaaaacctc 600
 58 tagacaaaagt aaccaaatact ccagccagct cccggcaga gaagaaagca 650
 60 gagccccccac ctagcaagcc cacggtgccc aagacggggc tggcactgat 700
 62 caaggattgt tgccggggca cccagtgcaaa catcatgtag ccccccacgtg 750
 64 gggtgtccctg ggccatgggg accccccccccc acccttctgt ctttatagcc 800
 66 cccatttcac cggggcccaa gagctctcca aggccagaagg ggttgaaggc 850
 68 aagccccgtga ctgtcaccag aggccatggg cacggcaggc gggcctggcc 900
 70 accctgtaca gagtgttagca gttagggagtc tctaccgtc gcatggctt 950
 72 ccccaagagca tgccgaaccc aggagtctgt ctcactgtt atccaaacac 1000

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74 caggaaaggc cctccctcaa aaaagcatat ctccacttct ctcttagctgt 1050
76 atctaaccgc ccgtgtgaat gaaactgggag aggggcacatgc tccccagctg 1100
78 tgtgtagtcg tgacttctca acaatctagc accatgtcg acacgttccc 1150
80 catccacccct cctagctctg ctctcagagc taggcacatg ggcacaggtc 1200
82 ccctcccgctc tgtccctctcc cagcaactgt gccctggagg gctccacatg 1250
84 gcccccggtgt ctctcgggca ccaccatata agcagtccca gagggcccat 1300
86 ctgtaaagat cgagcttgcg tgtggtgcg tggtcacatc tcccgctcc 1350
88 ccccatcctg tgtctggca cagttcacat caggacagcg tccattgtgc 1400
90 tctcagtcg cctcagggtgt gtgcctggag ggggcctgga ctggcatgga 1450
92 tccagtgtgc agaagagcca gcagggAACc ggaagctctg atgtcaaggc 1500
94 caqagcgtt gagaatggga cccagagtag atgctgacct gggcactcca 1550
96 ccattccggg gccaccacag agatgccagc aggatgccac tttgccagcc 1600
98 cgacacacggg acctttgtaa agaacagcaa caggcaggag aggcagcgtg 1650
100 tgaccagatt gtgtcccgctc attgggtggc atatgttaac tagctccaa 1700
102 acaacttcaa cccgtgtat tcatgtacat ttgcaacagc cagcccgta 1750
104 cagcctgtgt gacttctctg tatgtgtgtg tgtgtcgtga ccagcctaag 1800
106 tagttagcat aactcaagat gctgatgtgc agtcacccat cagagaaaat 1850
108 aaaaatggaa accacgttca cagcattta aaagtttta cttttttct 1900
110 tgattatggaa agtaatccat gtacatagta aatcattttta aaagtaca 1950
112 aagtatggaa aagtttgtct taaaaaaaaaaaaaaa 1989
114 <210> SEQ ID NO: 2
115 <211> LENGTH: 245
116 <212> TYPE: PRT
117 <213> ORGANISM: Homo sapiens
119 <400> SEQUENCE: 2
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121      1           5           10          15
123 Gly Ala Thr Ser Leu Pro Ala Ala Arg Asn Gly Asn Gly Val Lys
124           20          25          30
126 Gly Asp Pro Ser Thr Trp Pro Arg Gly Ser Ala Met Glu Leu Lys
127           35          40          45
129 Gln Ser Leu Ser Thr His Leu Glu Ala Glu Lys Pro Leu Arg Arg
130           50          55          60
132 Tyr Gly Ala Val Glu Glu Thr Ala Trp Lys Thr Glu Arg Leu Gly
133           65          70          75
135 Arg Asn Gln Leu Asp Ile Ile Ser Met Ala Glu Thr Thr Met Met
136           80          85          90
138 Pro Glu Glu Ile Glu Leu Glu Met Ala Lys Ile Gln Arg Leu Arg
139           95         100         105
141 Glu Val Leu Val Arg Arg Glu Ser Glu Leu Arg Phe Met Met Asp
142           110         115         120
144 Asp Ile Gln Leu Cys Lys Asp Ile Met Asp Leu Lys Gln Glu Leu
145           125         130         135
147 Gln Asn Leu Val Ala Ile Pro Glu Lys Glu Lys Thr Lys Leu Gln
148           140         145         150
150 Lys Gln Arg Glu Asp Glu Leu Ile Gln Lys Ile His Lys Leu Val
151           155         160         165
153 Gln Lys Arg Asp Phe Leu Val Asp Asp Ala Glu Val Glu Arg Leu
154           170         175         180

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Input Set : A:\P1977R1 Sequence Listing.txt
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156 Arg Glu Gln Glu Glu Asp Lys Glu Met Ala Asp Phe Leu Arg Ile
 157 185 190 195
 159 Lys Leu Lys Pro Leu Asp Lys Val Thr Lys Ser Pro Ala Ser Ser
 160 200 205 210
 162 Arg Ala Glu Lys Lys Ala Glu Pro Pro Pro Ser Lys Pro Thr Val
 163 215 220 225
 165 Ala Lys Thr Gly Leu Ala Leu Ile Lys Asp Cys Cys Gly Ala Thr
 166 230 235 240
 168 Gln Cys Asn Ile Met
 169 245
 171 <210> SEQ ID NO: 3
 172 <211> LENGTH: 649
 173 <212> TYPE: DNA
 174 <213> ORGANISM: Homo sapiens
 176 <220> FEATURE:
 177 <221> NAME/KEY: unsure
 178 <222> LOCATION: 524
 179 <223> OTHER INFORMATION: unknown base
 181 <400> SEQUENCE: 3
 182 catttttaaa cttnnnnn aattttat ttggtagctag gttttatatt 50
 184 gttcttaaat ttattnact ctattnatt tttccatcac ttctttgtcc 100
 186 cagattcatg aaatttgctg atgtccattt tatgtctact tttgaactct 150
 188 tctctttgtg ttgtttgt tcttattaca aactccaaga catttcttag 200
 190 aattgtctac agatttcgtg tagctactta ttggtagctt cttattca 250
 192 tacttgtcca gaccattaga cattattaca tgctctgtct tgggcctatc 300
 194 attaacatta gcttagggat tctgattca aagacataaaa gaattggcaa 350
 196 aactcttctt acagaactta aaacaagttt taaagttaca ttctataca 400
 198 tctaatacat aataccttct tagccattaa tctaattcct ctggataaaag 450
 200 ataatatatt caaaaaatat tgggacccaa aaatgcactt gtttcttgct 500
 W--> 202 catatatata tagatgtaaa attntttaa ttcttggtt gtttattttg 550
 204 gttacattga atacagattt gctgaacagt ttgtatgtt ttttttaat 600
 206 aaaatttgtt ttgttaaagt gccttgaaa ttcttaataa ataacttca 649
 208 <210> SEQ ID NO: 4
 209 <211> LENGTH: 655
 210 <212> TYPE: DNA
 211 <213> ORGANISM: Homo sapiens
 213 <400> SEQUENCE: 4
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 216 gaaaatcggtt ttgttctgc cacatgtcc aagctttgt atcaaaaagg 100
 218 tagaagatgt ccaagaacct gttgataatg aattgggtt ccagcaagtt 150
 220 gttccttaaat gtccaaacaa aataaaaaact ttcttgtaa tatctggatg 200
 222 aaaagagagt agtgggtgt ttaattgcag aacccatcaa acaggcattt 250
 224 cgtgtccgtt ctgaaccaat ttggccagaa tcccccaagct ctacgaaatg 300
 226 tccttaggct tggcaatgtt cagatgtacc agaacctgca gtctgtggaa 350
 228 taagtagaat ctgggtttc agactgaaga gaagaaagcg cattgcaaga 400
 230 cgactgggtt ataccctcag gaattgttc atgtttggct ttttctcag 450
 232 cactgatgaa atagcatttt ctgacccaa accagatggc aagttatttg 500
 234 caaccaagta ctgcaacacc cctaattcc tcgtatataa ttttaatagt 550
 236 taaagctgat ttcaagttt aaggagttac tatctggata agttcaaaga 600

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Input Set : A:\P1977R1 Sequence Listing.txt
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238 gctccttatt ataaaataca aactatttaa tatcaaaata aaaaataccg 650
240 agact 655
242 <210> SEQ ID NO: 5
243 <211> LENGTH: 66
244 <212> TYPE: PRT
245 <213> ORGANISM: Homo sapiens
247 <400> SEQUENCE: 5
248 Lys Tyr Val Gly Trp Lys Lys Glu Arg Val Val Ala Glu Phe Trp
249 1 5 10 15
251 Asp Gly Lys Ile Val Leu Val Leu Pro His Asp Pro Ser Phe Ala
252 20 25 30
254 Ile Lys Lys Val Glu Asp Val Gln Glu Leu Val Asp Asn Glu Leu
255 35 40 45
257 Gly Phe Gln Gln Val Val Pro Lys Cys Pro Asn Lys Ile Lys Thr
258 50 55 60
260 Phe Leu Val Ile Ser Gly
261 65
263 <210> SEQ ID NO: 6
264 <211> LENGTH: 1332
265 <212> TYPE: DNA
266 <213> ORGANISM: Homo sapiens
268 <400> SEQUENCE: 6
269 ggcacgagaa aaaacattaa gacagaacctt aaaaaacaata gattgactat 50
271 aatccaaaga cgagtgtacc tctaaccaca attttcattt atttttaaat 100
273 gtttccttca tggcctttct tggcgtcac cctatgcagt ttgtgtattt 150
275 gttgacaact ttatgtgttt ttaatatgtt ttttgccaaa ctgggtttt 200
277 ccgagaccgt ctttctcgag aggctcagtt ttaccgtcct atctgcagtc 250
279 ggctacttc agtggcaga agaggccaca tctgcttcct gtggccctc 300
281 tgggcagaag catgcgtgg tgcctccccc tgatctggc ccagggctg 350
283 aggcaggctc ccctcgccctc aggaatgatg acaggcacaa tagaaacaac 400
285 ggggaacatt tctcagaga aagggtggctc tatcatctt caatgtcacc 450
287 tctcctccac cacggcacaa gtgaccctgg tcaactggga gcagcaggac 500
289 cagcttctgg ccatttgtaa tgctgacttg ggtggcaca tctccccatc 550
291 cttcaaggat cgagtggccc caggtcctgg cctggccctc accctccagt 600
293 cgctgaccgt gaacgataca ggggagact tctgcatcta tcacacctac 650
295 cctgatggga cgtacactgg gagaatcttc ctggaggctc tagaaagctc 700
297 agtggctgag cacggtgcca gttccagat tccattgctt ggagccatgg 750
299 ccgcgacgt ggtggtcatt tgcacagcag tcatcgtgg ggtcgcttg 800
301 actagaaaga agaaagccct cagaatccat tctgtggaaat gtgacccttag 850
303 gagaaaatca gctggacagg aggaatggag ccccagtgtc ccctcacccc 900
305 caggaagctg tgtccaggca gaagctgcac ctgctggct ctgtggagag 950
307 cagcggggag aggactgtgc cgagctgcat gactactca atgtcctgag 1000
309 ttacagaagc ctgggtaact gcagcttctt cacagagact ggttagcaac 1050
311 cagaggcatc ttcttggaa tacacttttgc tctttgctat tataatgtt 1100
313 tatataagca gctgtactct ccatcagtgc tgcgtgtgtg tgcgtgtgt 1150
315 tatgtgtgtg tgcgttgcgt tgagtgaata aatgtcatcc tcttctccat 1200
317 cttcatttcc ttggcctttt cgttcttattc cattttgcatt tatggcaggc 1250
319 ctagggtgag taacgtggat cttgatcata aatgcaaaat taaaaaatat 1300
321 cttgaccctgg ttttaaaaaaa aaaaaaaaaaa aa 1332

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Input Set : A:\P1977R1_Sequence_Listing.txt
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323 <210> SEQ ID NO: 7
 324 <211> LENGTH: 244
 325 <212> TYPE: PRT
 326 <213> ORGANISM: Homo sapiens
 328 <400> SEQUENCE: 7
 329 Met Arg Trp Cys Leu Leu Leu Ile Trp Ala Gln Gly Leu Arg Gln
 330 1 5 10 15
 332 Ala Pro Leu Ala Ser Gly Met Met Thr Gly Thr Ile Glu Thr Thr
 333 20 25 30
 335 Gly Asn Ile Ser Ala Glu Lys Gly Gly Ser Ile Ile Leu Gln Cys
 336 35 40 45
 338 His Leu Ser Ser Thr Thr Ala Gln Val Thr Gln Val Asn Trp Glu
 339 50 55 60
 341 Gln Gln Asp Gln Leu Leu Ala Ile Cys Asn Ala Asp Leu Gly Trp
 342 65 70 75
 344 His Ile Ser Pro Ser Phe Lys Asp Arg Val Ala Pro Gly Pro Gly
 345 80 85 90
 347 Leu Gly Leu Thr Leu Gln Ser Leu Thr Val Asn Asp Thr Gly Glu
 348 95 100 105
 350 Tyr Phe Cys Ile Tyr His Thr Tyr Pro Asp Gly Thr Tyr Thr Gly
 351 110 115 120
 353 Arg Ile Phe Leu Glu Val Leu Glu Ser Ser Val Ala Glu His Gly
 354 125 130 135
 356 Ala Arg Phe Gln Ile Pro Leu Leu Gly Ala Met Ala Ala Thr Leu
 357 140 145 150
 359 Val Val Ile Cys Thr Ala Val Ile Val Val Val Ala Leu Thr Arg
 360 155 160 165
 362 Lys Lys Lys Ala Leu Arg Ile His Ser Val Glu Gly Asp Leu Arg
 363 170 175 180
 365 Arg Lys Ser Ala Gly Gln Glu Glu Trp Ser Pro Ser Ala Pro Ser
 366 185 190 195
 368 Pro Pro Gly Ser Cys Val Gln Ala Glu Ala Ala Pro Ala Gly Leu
 369 200 205 210
 371 Cys Gly Glu Gln Arg Gly Glu Asp Cys Ala Glu Leu His Asp Tyr
 372 215 220 225
 374 Phe Asn Val Leu Ser Tyr Arg Ser Leu Gly Asn Cys Ser Phe Phe
 375 230 235 240
 377 Thr Glu Thr Gly
 380 <210> SEQ ID NO: 8
 381 <211> LENGTH: 1336
 382 <212> TYPE: DNA
 383 <213> ORGANISM: Homo sapiens
 385 <400> SEQUENCE: 8
 386 gtcagtcgca agcgaacgac caagagggtg ttgcactgct agagccgagc 50
 388 gaagcgatgc ctaaatcaaa ggaacttgtt tcttcaggct cttctggcag 100
 390 tgattctgac agtgagggtt aaaaaaagtt aaagaggaaa aagcaagttg 150
 392 ctccagaaaa acctgtaaag aaacaaaaga cagtgagac ttgcagagcc 200
 394 ctgtcatctt ctaaacagag cagcagcagc agagatgata acatgtttca 250
 396 qattqqqaaa atgaggtacg ttagtgttcg cgatttaaa ggcaaagtgc 300

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 06/07/2006
PATENT APPLICATION: US/10/527,100A TIME: 17:09:54

Input Set : A:\P1977R1 Sequence Listing.txt
Output Set: N:\CRF4\06072006\J527100A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 524
Seq#:15; N Pos. 688,734,762,788
Seq#:18; N Pos. 7,11,12,26,28,567,583,586,587,588,589,591,593,594,597,599
Seq#:18; N Pos. 601,602,605,609,617,619,630,634,638,640,641,646,647,648,651
Seq#:18; N Pos. 652,656,657,658,660,665,667,668,671,672,673,678,679,683,684
Seq#:18; N Pos. 687,689,692,693,694,697,698,702,704,711,713,716,718,719,721
Seq#:18; N Pos. 723,724,725,728,730,731,736,740,742,744,746,748,749,757,758
Seq#:18; N Pos. 759,760,763,764,767,768,769,770,774,775
Seq#:46; N Pos. 779
Seq#:62; N Pos. 3011,3213
Seq#:68; N Pos. 37
Seq#:76; N Pos. 72
Seq#:93; N Pos. 1823,1824,1825,1826,1827,1828,1829,1830,1831,1832,1833,1834
Seq#:93; N Pos. 1835,1836,1837,1838,1839,1840,1841,1842,1843,1844,1845,1846
Seq#:93; N Pos. 1847,1848,1849,1850,1851,1852,1853,1854
Seq#:106; N Pos. 421

VERIFICATION SUMMARY

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Input Set : A:\P1977R1 Sequence Listing.txt
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L:18 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:500
L:890 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:650
M:341 Repeated in SeqNo=15
L:1133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
M:341 Repeated in SeqNo=18
L:3637 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:750
L:5023 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:3000
M:341 Repeated in SeqNo=62
L:5279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:0
L:5816 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:50
L:7144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:1800
M:341 Repeated in SeqNo=93
L:7856 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:106 after pos.:400